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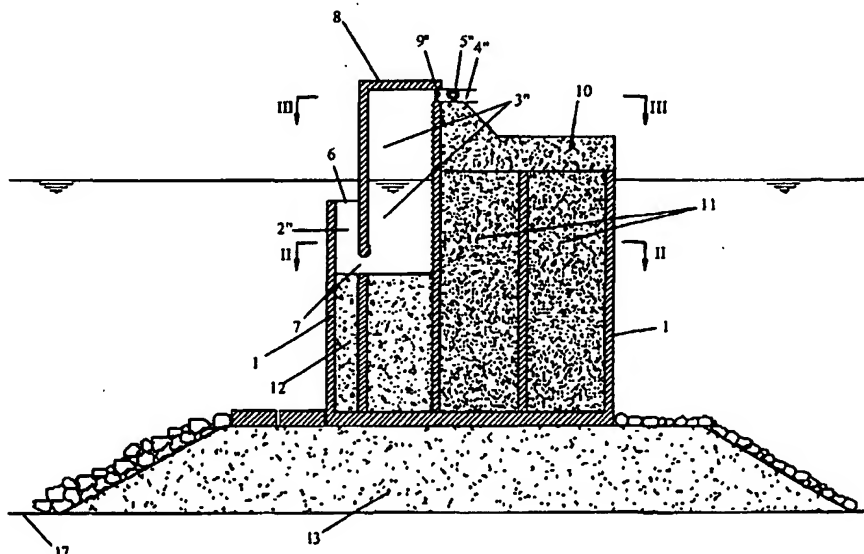
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(54) Title: OSCILLATING WATER COLUMN WAVE ENERGY CONVERTER INCORPORATED INTO CAISSON BREAK-WATER.



(57) Abstract: A caisson breakwater provided with vertical duct 2'', room 3'', air-duct 4'', self-rectifying turbine 5''. Under the fluctuations of wave pressure on the outer opening 6, the water, alternately, enters and exits, so that the air in room 3'', alternately, is compressed and expands, and an alternate air flow is produced in the air-duct 4''. The vertical duct 2'' and the room 3'' form a U-conduit, and the air in the room 3'' acts as a spring. The eigenperiod of oscillations in said U-conduit grows as the width of the vertical duct 2'' is reduced and/or the length of said vertical duct is increased, and/or the width and height of the room 3'' is increased. The eigenperiod is fixed close to the wave period of the waves which convey the largest amount of wave energy in a year, so as to absorb a very large quantity of wave energy.

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